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#### ABSTRACT

In an effort to learn more about the child prone to anxiety when separated from his parents, 60 3-year-old, predominantly white, middle class children were subjects of a parent-teacher study. Each parent completed a scale of 25 items on which his child's anxiety was rated just prior to the child's entrance into nursery school. A teacher-rated scale was then devised to measure the child's separation reaction in the school and was completed for every child immediately at the end of each school day over a 2-week period. (Additional ratings were made later on in the year.) Results indicate that parental ratings of children before entry into nursery school correlate highly with the teachers' ratings. This suggests that separation anxiety prone children can be identified with considerable efficiency before their entry into nursery school. Although later ratings showed lower levels of anxiety in children, correlations remained significant. Tables comprise half the document. A copy of the Parental Anxiety Rating Scale is also included. (MK)



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SEPARATION ANXIETY IN NURSERY SCHOOL CHILDREN\*

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The study of separation anxiety in nursery school children has obvious theoretical and practical importance. Nevertheless, a search of the literature reveals a relative lack of systematic and objective studies of anxiety in preschool programs. Heinicke's (1956) extremely valuable study in this area has the limitation of being primarily concerned with children placed in a residential nursery school—a potentially much more traumatic but also much less common experience for children of preschool age. Janis' (1965) clinical study of a single child's attendance at a morning session nursery school is concerned with a more typical childhood experience. This study, full of rich observations and insights, has the obvious limitation of a single case study. A more systematic investigation is that of Schwartz (1970) who designed a rigorous experiment to determine the effects of various intervention techniques on separation anxiety. His failure to find differences among his treatment groups possibly results from the extremely limited forms of intervention undertaken and from a neglect of individual differences in the children's proneness to separation anxiety.

In an attempt to extend our limited knowledge of this phenomenon of separation anxiety the authors have, during the past several years, undertaken interrelated studies on separation anxiety and associated problems in the social and emotional adjustment of the nursery school child.

Among the first questions with which we concerned ourselves, and which we shall discuss here, were questions dealing with the identification of children prone to separation anxiety, the patterning of separation anxiety responses as the child adjusts to the school situation, and the relationship of separation anxiety to other forms of anxiety.

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## Subjects and Setting

The subjects were 60 three-year-old, predominantly white, middle class children entering a nursery school program for the first time. Data was collected on four morning session groups, averaging 15 children per group, at two university laboratory nursery schools.

### Procedure

A parent-rated scale was devised to give measures of the child's general proneness to anxiety and his specific proneness to anxiety in situations in which he was separated, or threatened with separation, from his parents. This scale was designed to be administered just prior to the child's entrance into nursery school.

The parental Anxiety Rating Scale (PAR) consisted of 25 items relating to typical fears and anxieties in preschool children. Each item was rated on a five-point scale of increasing frequency or intensity of occurrence. The PAR provided two subscales. One subscale PAR consisted of six items all specifically related to the child's reactions to incidents involving or threatening separation from the parents, e.g., reactions to baby sitters, or reactions to being temporarily lost or separated from the parents during a shopping trip. The remaining 19 items, PAR<sub>19</sub>, related to general fears or anxieties of childhood, such as fears of animals, anxieties about falling or getting hurt, etc.

Using a Horst (1951) modification of the Spearman-Brown formula, a splithalf reliability coefficient of .82 was obtained for the total PAR scale with an N of 60 children.

A teacher rated scale was then devised to measure the child's separation reaction in the nursery school. This <u>Teacher's Separation Anxiety Rating (TSAR)</u> scale consisted of 11 items rated on a three-point scale of increasing frequency and/or intensity of occurence. The scale items focused on displayed emotions, tension responses, and interpersonal behavior reflecting anxiety. The <u>TSAR</u> was rated by the teacher immediately following the end of each school day, and it referred to the period of time from when the child entered the nursery school room until the parent or adult who brought him to school took leave and the child





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had become engaged in the activities of the day. The separation anxiety rating thus referred to a "behavioral unit" rather than to an arbitrary time unit.

The TSAR was filled out for the children in all four groups for each day of the first two weeks of nursery school. Scores on the scale were then summated over the two-week period to provide a measure of the child's separation anxiety. A two-week period was chosen because preliminary study indicated that it was during the first two weeks of the school year that separation anxiety reactions were most acute.

For two of our groups the teacher rated scale was used for several additional weekly intervals during the course of the school year: namely, the third and final weeks of the fall semester, and for the first two weeks of the spring semester which followed upon a six week intersession break. These particular weeks were selected in order to determine the "base rate" of the separation anxiety reaction after the initial acute phase of the first two weeks was over, and to determine if there was any resurgence in separation anxiety after a vacation period.

Split-half reliabilities for the initial two week separation anxiety ratings were obtained for two of our groups, each scored by a different teacher. The Horst modification of the Spearman-Brown formula gave coefficients of .82 (N=16) and .81 (N=13) for these two groups. Combining the two groups and ignoring teacher differences the split-half reliability rises to .91.

## Results

Table 1 presents the correlations of the Parental Anxiety Rating

Insert Table 1 about here

scale with the Teacher's Separation Anxiety Rating as summated over the first two weeks. In addition to the total PAR scores, both subscales were separately correlated with the TSAR.

The PAR vs. TSAR correlations were significant and strong for two of our four groups, with an average correlation for all four groups of .41, significant at



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the .01 level.

The correlations between the parental rating of separation anxiety reactions, PAR, and the TSAR were strong and significant for three of the four groups, with an average correlation among four groups of .70, significant at the .01 level.

The correlations between the parental rating of general anxiety reactions exclusive of separation, PAR<sub>19</sub>, and the TSAR for the groups considered individually or collectively were not significant.

The differences in the correlations of PAR<sub>6</sub> and PAR<sub>19</sub> with TSAR take on additional significance in view of the obtained correlation of ,46 for PAR<sub>6</sub> vs. PAR<sub>19</sub> for all 60 subjects. The two subscales, though showing a moderately strong intercorrelation, do not show the same pattern of correlation with TSAR scores. This difference in the correlations of the subscales with TSAR scores reappears again in the following analysis.

Means for the two groups on which we collected TSAR scores during subsequent weekly intervals of the school year are presented in Table 2.

# Insert Table 2 about here

Inspection of the table reveals that there is a drop in the means of the TSAR scores over the school year with the drop being more gradual in the case of Group I than Group II. An analysis of variance indicates a significant main effect for time with p < .01 (F = 7.37, f = 0.01) and for the interaction of time and groups with f = 0.01 (f = 0.01). A trend analysis also reveals a significant linear component for the main effect of time.

The failure of the TSAR scores to resurge after the six weeks intersession break, and their generally low level after the second week, might suggest that separation anxiety as a phenomenom is limited to the initial entry into school. As a check on this possibility, it was decided to correlate both PAR<sub>6</sub> and PAR<sub>19</sub> with all the obtained weekly scores. Presumably, if separation anxiety does not occur after the first two weeks, the PAR<sub>6</sub> vs. TSAR correlations will tend toward zero. The relevant data is presented in Table 3 where it is apparent that



# Insert Table 3 about here

although the correlations of PAR vs. TSAR tend to be lower after the first three week period they do remain significant, with the exception of the final week's correlation which just narrowly misses significance at the .05 level. In contrast, the correlations of PAR vs. TSAR are invariably insignificant.

## Implications and Conclusions

The results of this study indicate that parental ratings of children's proneness to anxiety on separation from the parents before entry into nursery school correlates highly with the teachers' ratings of the children's separation anxiety reaction upon entry into nursery school. One of the most important aspects of this result is the strength of the correlation (.70) which suggests that the PAR subscale can be used to identify groups of separation anxiety prone children before their entry into nursery school with considerable efficiency. This not only furthers the possibilities for research on the causal and concomitant variables of anxiety, but makes feasible the study of educational innovations to reduce separation anxiety in the nursery school child.

The moderately strong correlation (.46) of PAR $_6$  and PAR $_{19}$  suggests that the separation anxiety prone child is prone to other anxieties. However, the failure of the PAR $_{19}$  scale to correlate with the TSAR scale, in spite of the high PAR $_6$  vs. TSAR correlations, indicates a degree of specificity to the separation anxiety reaction which requires its study apart from a general proneness to anxiety.

Finally, the patterning of TSAR scores over the school year might suggest that the phenomenon of separation anxiety is largely limited to the first weeks of school. However, the pattern of correlations between PAR<sub>6</sub> and TSAR indicates that although the separation anxiety reaction may be muted after the initial weeks of school, it must continue to be a differentiating factor among the children. This has implications for planning further studies on separation anxiety and its personality correlates.





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TABLE 1
Correlations of TSAR Scores with PAR Scales

	I N = 14	II N = 16	III <u>N</u> = 13	IV N = 14	Average <u>r</u> <u>N</u> = 57
PARTot	.54*	.46 .71**	.03	.52* .76*	.41**
PAR19	.34	.25	16	.26	.21

Note. -- TSAR scores summed over first two weeks.



<sup>\*</sup>p < .05

<sup>\*\*</sup>p < .01

TABLE 2
Weekly TSAR Mean Scores

	pater ( many parameters). I have		Weel	ks		neske skupenk in 1984 sky pr	
	Semester I				Semester II		
	1	2	3	13	1	2	
GroupI		. !	}				
$(\underline{N} = 14)$	14.0	8.4	7.5	4.9	3.6	2.4	
Group II			į				
( <u>N</u> - 16)	10.0	2.4	3.6	2.6	1.1	1.3	
Total	12.0	5.4	5.6	3.8	2.4	1.8	

TABLE 3

Correlations of TSAR Scores with PAR Scales

			Week	s		
	Semester I				Sem <b>e</b> :	ter II
	1 N = 30	2 N = 30	2 N = 30	13 N <sup>a</sup> =29	1 N <sup>a</sup> = 29	2 N <sup>a</sup> = 29
PAR6	.53**	.46*	.50**	.39*	.40* .30	.34

Note. -- TSAR scores summed over one week.

<sup>&</sup>lt;sup>a</sup>One child was withdrawn from the nursery school program after the first three weeks due to extreme separation anxiety; his ratings after rejoining the class at second semester are not included in these analyses.

<sup>\*</sup> E ( .05

<sup>\*\*</sup> p < .01

#### Footnotes

- 1. In one of our four groups of parents we were not able to distribute the scales to the parents before entrance and so the scale was filled out after the child's first morning at nursery school. Although this could conceivably influence the parental ratings, the analysis of the data did not indicate any way in which this group differed from the other three.
- 2. The significant interaction may be attributed to the fact that TSAR scores in Group II decrease more rapidly than those in Group I. Since we are primarily interested in the fact that TSAR scores decrease, and the teacher and group differences between groups are confounded, only the significant main effect for time need be addressed.



## Parental Anxiety Rating Scale

Instructions to parents

In the following scale, we are interested in knowing the degree to which various children react to situations which evoke fear and anxiety in children. Different children show fear and anxiety in different areas. We would like you to read the questions and decide whether in these areas your child shows less, about the same, or more fear than other children his age.

If some of the questions are not applicable, please try to answer them on the basis of your child's reactions to similar experiences.

Please put a check ( ) on each scale where you think it best describes your child.

1. Does your child show fear of dogs or other pets when he encounters them outside the home?

Never	Less than other children	About the same	More than other children	A great deal more than other children

2. Is he afraid of the dark?

i			1	<u> </u>
Not at all	Slightly less	About the same	Slightly more	A great deal more than other children

3. When you take him swimming, is he fearful or apprehensive of the water?

•	ţ	•		<u></u>
Not at all	Slightly less	About the same	Slightly more	A great deal more than other children

4. Does going to the doctor's upset him?

	1		1	<u> </u>	
•	Not at all	Slightly less	About the same	Slightly more	A great deal more than other children

5. Does he ever express fear of imaginary animals, or animals with which he has not had direct contact such as lions, tigers, dinosaurs, etc.?

i i		,		
Not at all	Slightly less	About the same	Slightly more	A great deal more than other children



Page 2

1	,			
Not at	Less than	About the	More than other	A great de
all	other children	same	children	other chi
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oes thunde	er or lightning	frighten him?		
	03.1.1.1.1.	1	Clichalm	A great d
Not at all	Slightly less	About the same	Slightly more	more than
alr	1680	og me.	MOZ C	other chi
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		blanket with his		os ne editos
	i i	. (	1	
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all	less	same	more	more than
				other chi
s he afrai	Slightly	Realistic	i Overconcern	Panic
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Not at all	Slightly  ow concern arou falling into t  Less than other children  g his head wash  Less than other children  id of strangers	Realistic concern and toileting, su he bowl?  About the same and or hair cut use the same are	Overconcern  ch as fear of the  More than other children  pset him?  More than other children	Panic  noise of fl  A great d more than other chi  A great d more than other chi
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				Page 3
Is he afr	aid of harmless i	nsects such as b	eetles, moths, or	r dragonflies?
Not at all	Slightly	Concern	Overconcern	Panic
Does gett	ing dirty disturb	him?		
	<u></u>	<u>-</u>	i	
Not at	Less than	About the	More than	A great deal more than
a11	other children	same	other children	other children
Is he ups	et when left with	ı a babysitter fo		
		4		
Not at	Less than	About the	More than	A great deal
all	other	same	other	more than
	children		children	other children
Does he s	show fear of domes	stic animals such	n as cows, horses	, or sheep?
Heedles	ss Relative	Realistic	Somewhat	Fearful
IICCUAC	lack of	concern	overconcern	
Is he af	raid of snakes, t	oads, frogs, etc	.?	
			3	i
Not at	Less than	About the	More than	A great deal
all	other	same	other	more than
	children		children	other children
Does he th <b>e sup</b> e	become upset at brmarket?	eing lost, such	as an accidental	separation in
	1	About the	More than	A great deal
Not at	Less than other	same	other	more than
all	children		children	other children
Do cuts	and bruises upset	: him?		
·		About Abo	More than	A great deal
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all	children	ващо	children	other children
	4110-01-01		•	



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	Not at all	Less than other children	About the same	More than other children	A great deal more than other childre
Do si	loud noi lrens frig	ses from outsid hten him?	e, such as passi	ing fire engines,	or air raid
٠	Not at	Less than	About the	More than	A great deal
	all	other	same	other	more than
	GII.	children		children	other childre
Do	oes he hav	e difficulty mi	xing with a new	group, such as a	it a party?
<u>_</u>	Not at	Less than	About the	More than	A great deal
	all	other	same	other	more than
		children		children	other childre
<u> </u>	Not at all	Less than other children	About the same	More than other children	A great deal more than other childr
. I	s he over:	ly concerned wh	en he breaks a t	oy or house hold	object such as
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1_	al1	children			
		oncern or upset	does he show wh	en his father/an	d, or mother is
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	How much caway overn	oncern or upset ight?  Less than	About the	More than	A great deal
s th	How much caway overn	oncern or upset ight?  Less than other children	About the same	More than other children	A great deal more than

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# Teacher's Separation Anxiety Rating Scale

	M	T	W	Th	F
Clings to mother Cry, Scream Whimpers Verbal protest Runs after mother Shadows mother Periodic Return to Mother Periodic visual contact with mother Vacillates in permitting separation Pulls mother into room					
Hesitant (2) vs. Eager (0) entrance			-		

## Scoring Key:

0 = none

1 = occasional (1-3 times), or low intensity
2 = frequently (4 or more), continuously, or high intensity

